

# Figure 1A

## Hum. anti-CD3 VL nt

GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACCATCA  
CTTGACAGCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGCAGACACAGGGAAGCCCC  
TAAGAGATGGATCTATGACACATCCAAAGTGCTTCTGGGTCCCATCAAGGTTCAGTGGCAGT  
GGATCTGGGACAGATTACACTTTCACCATCAGCAGTCTGCAACCTGAAGATATTGCAACTTACT  
ACTGTCAACAGTGGAGTAGTAACCTCTCACCTTTGGCCAGGGACCAAGCTGCAGATCACCC

## Hum. anti-CD3 VL AA

DIQMTQSPSSLASVGDRTVITCRASSSVSYMNWYQQTPGKAPKRWIYDTSKVASGVPSRFSGS  
GSGTDYFTTISLQPEDIAITYYCQQWSSNPLTFGGQGTKLIIT

## Hum. anti-CD3 VH nt

CAGGTGCAGCTGGTGCAGTCTGGGGGAGGCGGTGCTCCAGCCTGGGAGGTCCCTGAGACTCTCCT  
GTAAGTCTTCTGGATACACCTTCACTAGGTATACGATGCAGTGGTCCGCCAGGCTCCAGGGAA  
GGGCTGGAGTGATGGATACATAAATCCTAGCCGTGGTTACTAATAATCAGAAAGGTG  
AAGGACCGATTACCATCTCCAGAGACAACCTCCAAGAACACGGCCTTCTGCAAAATGGACAGCC  
TGAGACCCGAGGACACGGGTGTGTAATTTCTGTGCGAGATATATGATGATCATTAATGACCTTGA  
CTACTGGGGCCAGGGCACCCCGGTCAACCGTCTCCTCA

**Figure 1A (cont.)****Hum. anti-CD3 VH AA**

QVQLVQSGGVSVPGRSLRLSCKSSGYTFTRYTMHWVRQAPGKGLEWIGYINPSRGYTNYNQKV  
KDRFTISRDN SKNTAFLQMDSLRPEDTGVYFCARYDDHYCLDYWGQGTPTVSS

**Figure 1B**

TGTACACTCCGATATCCAGCTGACCCAGTCTCCAGCTTCTTTGGCTGTGTCTCTAGGGCAGAGGGCCACCAT  
CTCCTGCAAGGCCAGCCAAAGTGTGATTATGATGGTGATGTTATTGAACTGGTACCACACAGATTCCAGG  
ACAGCCACCCAAACTCCTCATATGATGCATCCAATCTAGTTTCTGGGATCCACCCAGGTTTAGTGGCAG  
TGGGTCTGGGACAGACTTCACCCCTCAACATCCATCCTGTGGAGAAGTGGATGCTGCAACCTATCACTGTCA  
GCAAAGTACTGAGGATCCGTGGACGTTCCGTGGAGGACCAAGCTCGAGATCAAAAGTGGTGGTGGTCTGG  
CGCGGGCGCTCCGGTGGTGGTCTCAGGTGCAGCTGCAGCAGTCTGGGCTGAGCTGGTGAGGCGCTGG  
GTCCCTCAGTGAAGATTTCCTGCAAGGCTTCTGGCTATGCATTCAGTAGCTACTGGATGAACTGGGTGAAGCA  
GAGGCTGGACAGGGTCTTGAGTGGATTGGACAGATTGGCCCTGGAGATGGTGATACTAACTACAAATGGAAA  
GTTCAAGGGTAAAGCCACTCTGACTGCAGACGAATCCTCCAGCACAGCCCTACATGCAACTCAGCAGCCTAGC  
ATCTGAGGACTCTGCGGTCTATTCTGTGCAAGACGGGAGACTACGACGGTAGGCCGTTATTACTATGCTAT  
GGACTACTGGGGCCAAAGGACCAACCGTCAACCGTCTCCTCCGGAGTGGTGGCTCCAGGTGCAGCTGGTGCA  
GTCTGGGGAGCGGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTAAGTCTTCTGGATACACCTTCAC  
TAGGTATACGATGCACCTGGTCCGCCAGGCTCCAGGGAAGGGCTGGAGTGGATTGGATACATAAATCCTAG  
CCGTGGTTATACTAATTATAATCAGAAGGTGAAGGACCGATTCAACATCTCCAGAGACAACCTCCAAGAACAC  
GGCCTTCTGCAAAATGGACAGCCTGAGACCCGAGACACCGGTGTGTATTCTGTGCGAGATATTATGATGA  
TCATTACTGCCCTTGACTATTGGGGCCAGGGCACCCCGGTCAACCGTCTCCTCAGTCCGAAAGTGGAGTGGAGG  
TTCTGGTGGAAAGTGGAGTTCAGGTGGAGTGGACGACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGC  
ATCTGTAGGAGACAGAGTCACCATCACTTGCAGAGCAAGTTCAAAGCGTAAGCTACATGAATTGGTATCAGCA  
GACACCAGGGAAGCCCCCTAAGAGATGGATCTATGACACATCCAAAGTGGCTTCTGGGGTCCCATCAAGGTT  
CAGTGGCAGTGGATCTGGGACAGATTACACTTTCACCATCAGCAGTCTGCAACCTGAAGATATTGCAACTTA  
CTACTGTCAACAGTGGAGTAGTAACCCCTCTCACTTTTGGCCAGGGGACCAAGCTGCAGATCACC

**Figure 1B (cont.)**

DIQLTQSPASLAVSLGQRATISCKASQSVDDYDGDSYLNWYQQIPGQPPKLLIYDASNLVSGIPPRFSGSGSG  
TDFTLNHPVEKVDAAATYHCQQSTEDPWTFGGGTKLEIKGGGGGGGGGQVQLQQSGAELVRPGSSV  
KISCKASGYAFSSYWMNWKQRPQGQGLEWIGQIWPBGDGTNNGKFKGKATLTADESSSTAYMQLSLASED  
SAVYFCARRETTTVGRYYYAMDYWGQGTTVTVSSGGGGSQVQLVQSGGGVQVQGRSLRLSCKSSGYTFTRYT  
MHWVRQAPGKLEWIGYINPSRGYTNYNQVKDRFTISRDNKNTAFLQMDSLRPEDTGVYFCARYYDDHYC  
LDYWGQGTPTVTVSSVEGGSGGGSGGVDDIQMTQSPSSLSASVGDRTITCRASSSVSYMNWYQQTPG  
KAPKRWIYDTSKVASGVPSRFSGSGGTDYFTTISLQPEDIATYYCQQWSSNPLTFGQGTKLQIT

**Figure 1C**

TGTACACTCCGAGCTCGTGATGACACAGTCTCCATCCTCCCTGACTGTGACAGCAGAGAGAAAGGTCACTAT  
GAGCTGCAAGTCCAGTCAGAGTCTGTTAAACAGTGGAATCAAAAGAACTACTTGACCTGGTACCAGCAGAA  
ACCAGGCAGCCTCCTAAACTGTTGATCTACTGGCATCCACTAGGGAATCTGGGTCCCTGATCGCTTCAC  
AGGCAGTGGATCTGGAACAGATTTCACTCTCACCATCAGCAGTGTGCAGGCTGAAGACCTGGCAGTTTATTA  
CTGTCAGAATGATTATAGTTATCCGCTCACGTTCCGGTGTGGGACCAAGCTTGAGATCAAAGTGGTGGTGG  
TTCTGGCGGGCGGCTCCGGTGGTGGTTCAGAGTGCAGCTGCTCGAGCAGTCTGGAGCTGAGCTGGT  
AAGGCTGGGACTTCAGTGAAGATATCCTGCAAGGCTTCTGGATACGCCCTTCACTAACTACTGGCTAGGTTG  
GGTAAAGCAGAGGCCCTGGACATGGACTTGAGTGGATTGGAGATATTTTCCCTGGAAGTGGTAATATCCACTA  
CAATGAGAAAGTTCAAGGGCAAAGCCACACTGACTGCAGACAAAATCTTCGAGCACAGCCTATATGCAGCTCAG  
TAGCCTGACATTTGAGGACTCTGCTGTCTATTTCTGTCAAGACTGAGGAACTGGGACGAGCCTATGGACTA  
CTGGGGCCAAAGGACCAAGGTCAACCGTCTCCTCCGGAGGTGGTGGCTCCAGGTGCAGCTGGTGCAGTCTGG  
GGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCCTGTAAAGTCTTCTGTGATACACCTTCACCTAGGTA  
TACGATGCACCTGGTCCGCCAGGCTCCAGGGAAGGGCTGGAGTGGATTGGATACATAAAATCCTAGCCGTGG  
TTATACTAATTAATCAGAAGGTGAAGACCGATTCAACCATCTCCAGAGACAACTCCAAAGAACACGGCCTT  
TCTGCAAAATGGACAGCCTGAGACCCGAGGACACGGGTGTGTATTTCTGTGCGAGATATTAATGATGATCATTA  
CTGCCCTTGACTATTGGGCCAGGGCACCCCGGTCAACCGTCTCCTCAGTCGAAAGTGGAAAGTGGAGGTTCTGG  
TGGAAGTGGAGGTTGAGGTGGAGTGGACGACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCATCTGT  
AGGAGACAGAGTCACCATCACTTGCAGAGCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGCAGACACC  
AGGGAAGCCCCTAAGAGATGGATCTATGACACATCCAAAGTGGCTTCTGGGTCCCATCAAGGTTCAAGTGG  
CAGTGGATCTGGGACAGATTACACTTTCACCATCAGCAGTCTGCAACCTGAAGATATTGCAACTTACTACTG  
TCAACAGTGGAGTAGTAACCCCTCTCACTTTTGGCCAGGGACCAAGCTGCAGATCACC

**Figure 1C (cont.)**

ELVMTQSPSSLTVTAGEKVTMSCKSSQSLNSGNQKNYLTWYQQKPGQPPKLLIYWASTRESGVDPDRFTGSG  
SGTDFTLTISSVQAEDLAVYQCNDYSYPLTFGAGTKLEIKGGGSGGGGSEVQLLEQSGAELVRPG  
TSVKISCKASGYAFNTNYLWGWKQRPCHGLEWIGDIFPGSGNIHYNKFKGKATLTADKSSSTAYMQLSSLT  
FEDSAVYFCARLRNWDPEPMDYWGQGTTVTVSSGGGSQVLVQSGGVVQPGRSRLRLSCKSSGYTFTRYTMH  
WVRQAPGKGLEWIGYINPSRGYTNYNQKVKDRFTISRDN SKNTAFLQMDSLRPEDTGVIYFCARYDDHYCLD  
YWGQGTPTVTVSSVEGGSGGGGGVDIQTQSPSSLSASVGDRVTITCRASSSVSYMNWYQQTPGKA  
PKRWIYDTSKVASGVPSRFSGSGGTDTYFTISSLQPEDIAITYCQQQWSSNPLTFGQGTKLQIT

7/15

**Figure 1D**

GAGCTCGTCATGACCCAGTCTCCATCTTATCTTGCTGCACTCTCTGGAGAAACCACTTACTATTAAATTGCAGG  
GCAAGTAAGAGCAATTAGCAAAATATTTAGCCTGGTATCAAGAGAAACCTGGGAAAACCTAATAAGCTTCTTATC  
TACTCTGGATCCACTTTGCAATCTGGAATTCATCAAGTTCACTGGCAGTGGATCTGGTACAGATTTCACT  
CTCACCATCAGTAGCCTGGAGCCTGAAGATTTTGCAATGTATTACTGTCAACAGCATAAATGAATATCCGTAC  
ACGTTCCGAGGGGACCAAGCTTGAGATCAAAAGTGGTGGTCTTGCGCGCGCGGCTCCGGTGGTGGT  
GGTTCTGAGGTGCAGCTGCTCGAGCAGTCTGGAGCTGAGCTGGTGAACCTGGGGCTCAGTGAAGATATCC  
TGCAAGGCTTCTGGATACGCCCTTCACTAACTACTGCTAGGTGGTAAAGCAGAGGCCCTGGACATGGACTT  
GAGTGGATTGGAGATCTTTCCCTGGAGTGGTAATACTCACTACAATGAGAGGTTCAAGGGCAAAAGCCACA  
CTGACTGCAGACAAATCCTCGAGCACAGCCCTTTATGCAGCTCAGTAGCCTGACATCTGAGGACTCTGCTGTC  
TATTTCTGTGCAAGATTGAGGAACTGGGACGAGGCTATGGACTACTGGGCCCCAAGGGACCACGGTCACCGTC  
TCCTCCGGAGGTGGTGGATCCAGGTGCAGCTGGTGCAGTCTGGGGAGGCGTGGTCCAGCCTGGGAGGTCC  
CTGAGACTCTCCTGTAAGTCTTCTGGATACACCTTCACTAGGTATACGATGCAGTGGTCCGCCAGGCTCCA  
GGGAAGGGCTGGAGTGGATTGGATACATAAAATCCTAGCCGTGGTTATACTAATTATAATCAGAAGGTGAAG  
GACCGATTCACCATCTCCAGAGACAACTCCAAGAAACACGGCCTTTCTGCAAAATGGACAGCCTGAGACCCGAG  
GACACGGGTGTGTAATTTCTGTGCGAGATATATGATGATCATTAATGCTTACTGCTTGGGCCAGGGCACC  
CCGGTCACCGTCTCCTCAGTCGAAGGTGGAAGTGGAGGTTCTGGTGAAGTGGAGGTTCAAGGTGGAGTGGAC  
GACATCCAGATGACCCAGTCTCCATCCTCCCTGTCTGCCATCTGTAGGAGACAGAGTCACCATCACTTGCAGA  
GCAAGTTCAAGCGTAAGCTACATGAATTGGTATCAGCAGACACCAAGGAAAGCCCTAAGAGATGGATCTAT  
GACACATCCAAGTGGCTTCTGGGTCCCATCAAGGTTCACTGCGAGTGGATCTGGACAGATTACACTTTC  
ACCATCAGCAGTCTGCAACCTGAAGATATTGCAACTTACTACTGTCAACAGTGGAGTAGTAACCCCTCTCACT  
TTTGGCCAGGGACCAAGCTGCAGATCACC

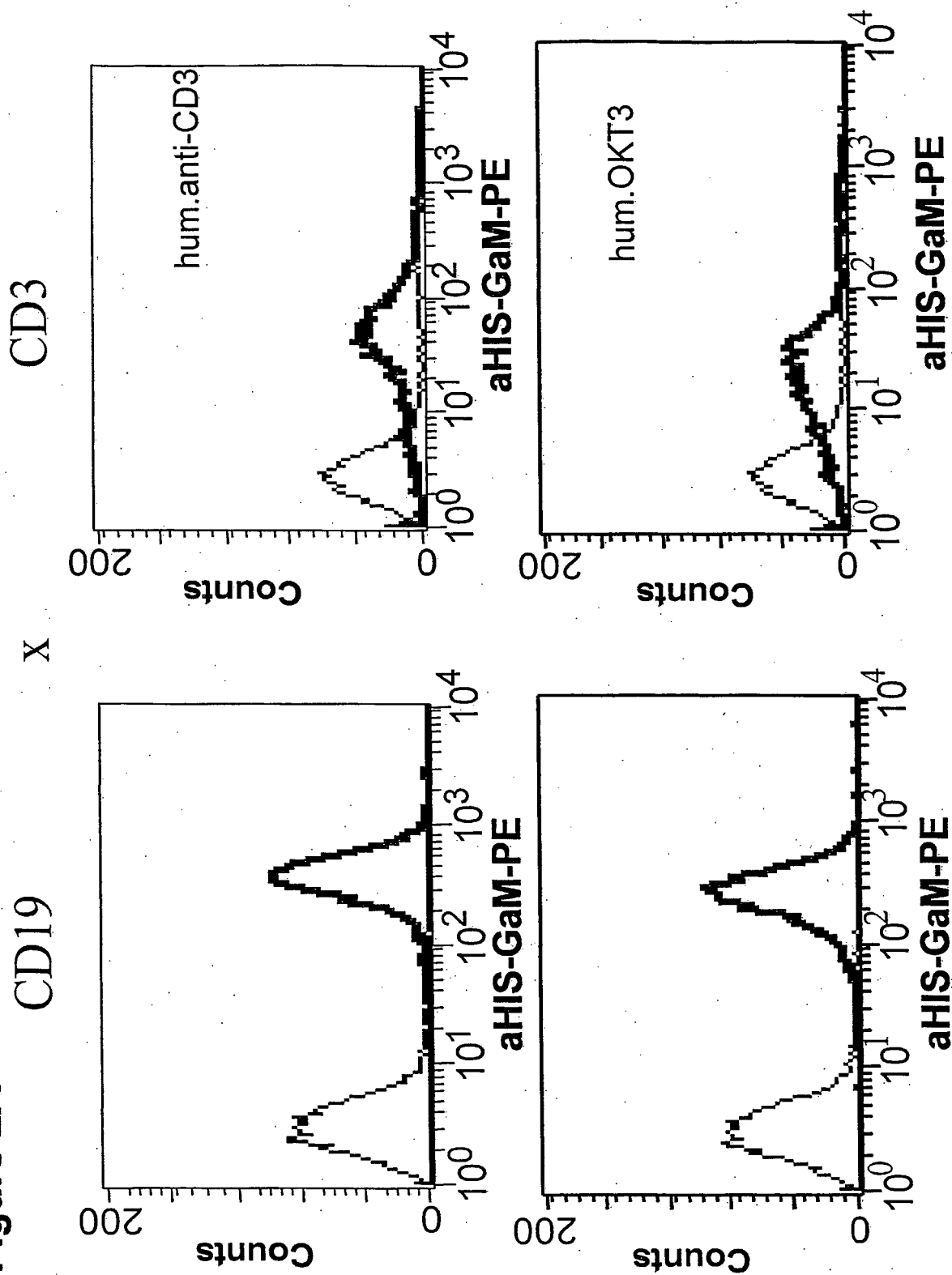
**Figure 1D (cont.)**

ELVMTQSPSYLAASPGETITINCRASKSISKYLAWYQEKPGKTNKLLIYSGSTLQSGIPSRFSGSGGTDFT  
LTISSLEPEDFAMYYCQQHNEYPTFGGKLEIKGGGGGGGGSEVQLLEQSGAELVKPGASVKIS  
CKASGYAFTNYWLGWVKQRPQGHLEWIGDLFPGSGNTHYNERFRGKATLTADKSSSTAFAFMQLSSLTSEDSAV  
YFCARLRNWDAMDYWGQGTITVSSGGGSQVQLVQSGGVVQPGRSRLRSCKSSGYTFTTRYTMHWVRQAP  
GKGLEWIGYINPSRGYTNYNQVKDRFTISRDN SKNTAFLQMDSLRPEDTGVIYFCARYYDDHYCLDYWGQGT  
PVTVSSVEGGSGGGSGGVDDIQMTQSPSSLSASVGDRTITCRASSSVSYMNWYQQTPGKAPKRWIY  
DTSKVASGVPSRFSGSGGTDYFTFISLQPEDIATYYCQQWSSNPLTFGGQTKLQIT

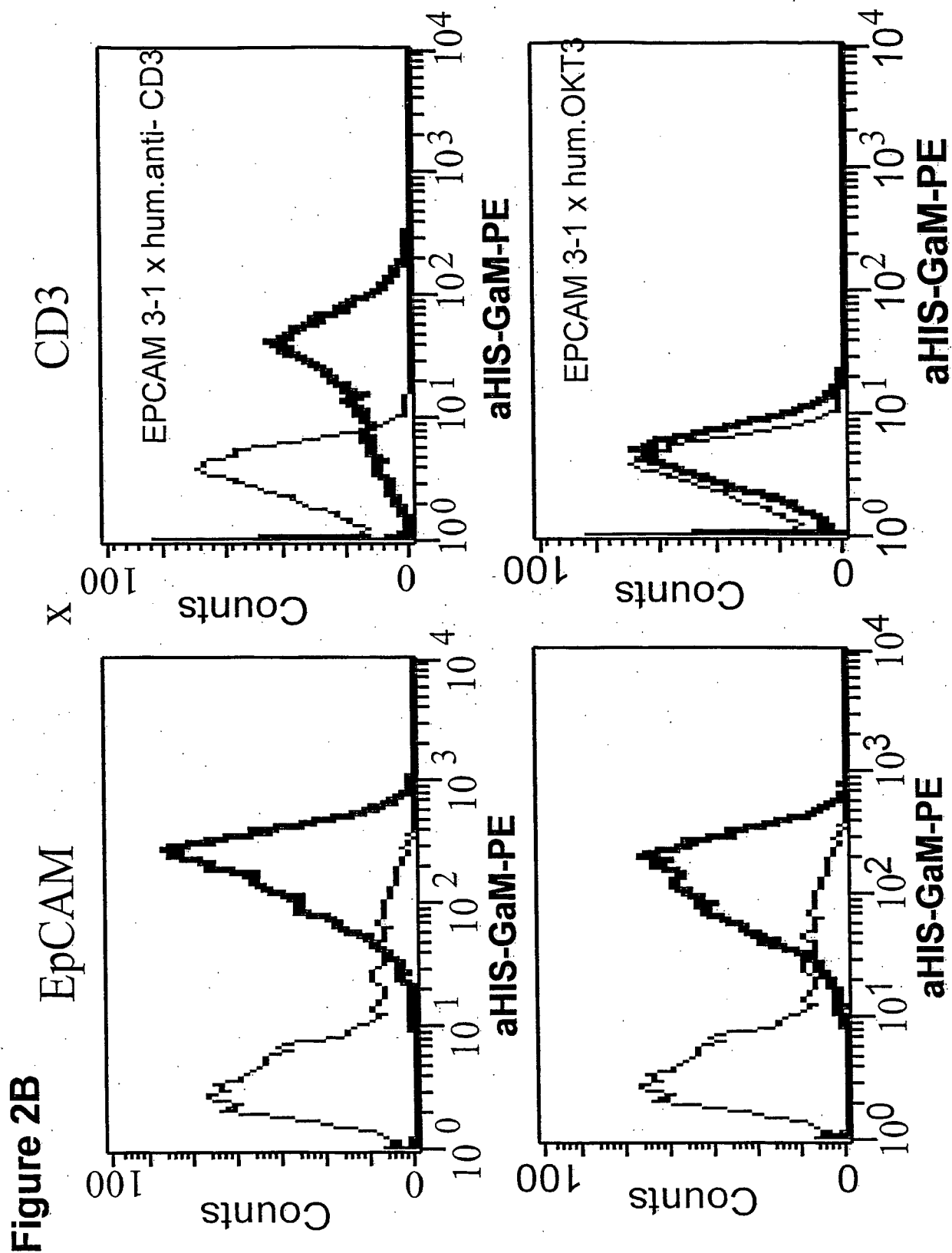


9/15

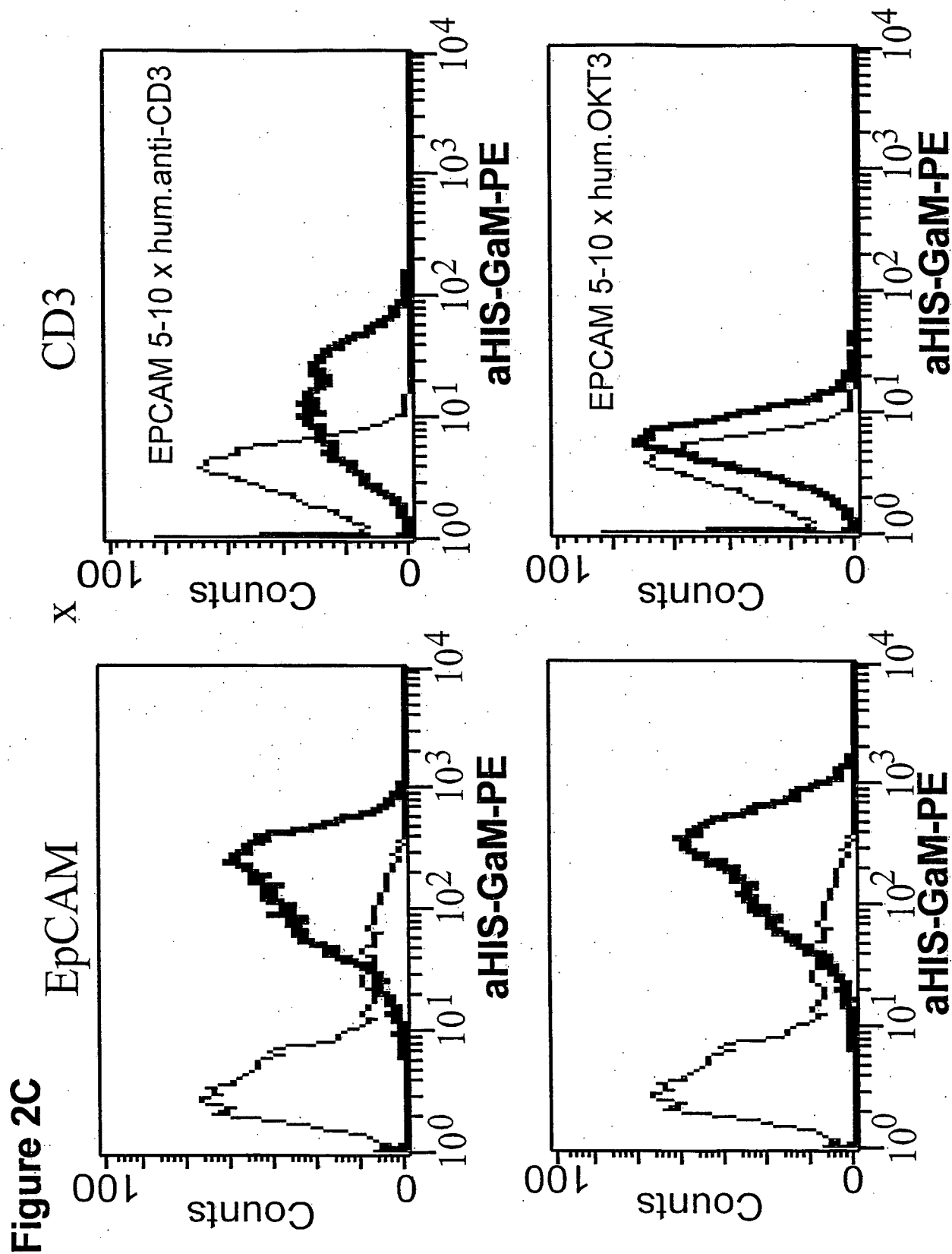
Figure 2A



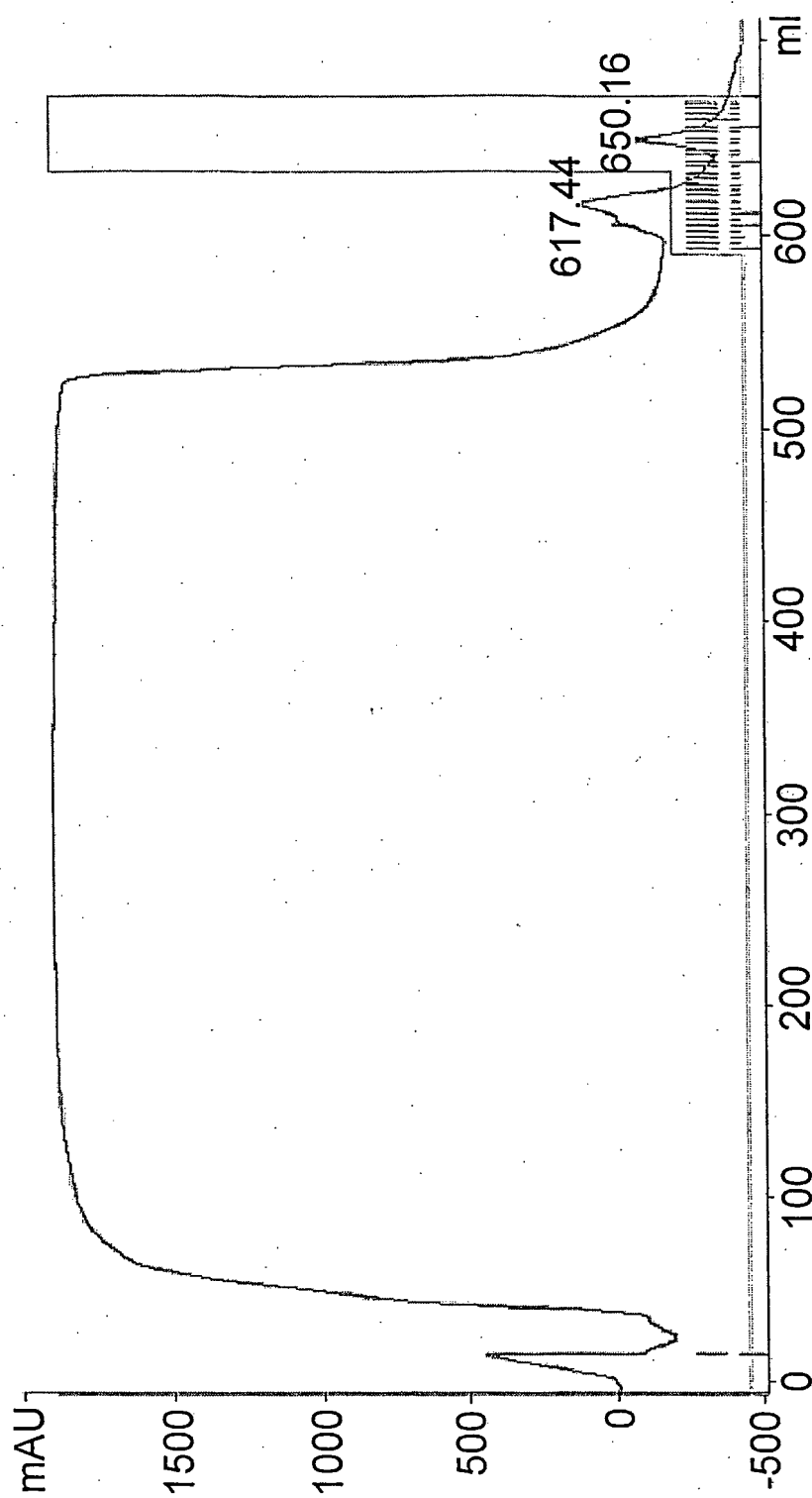
10/15

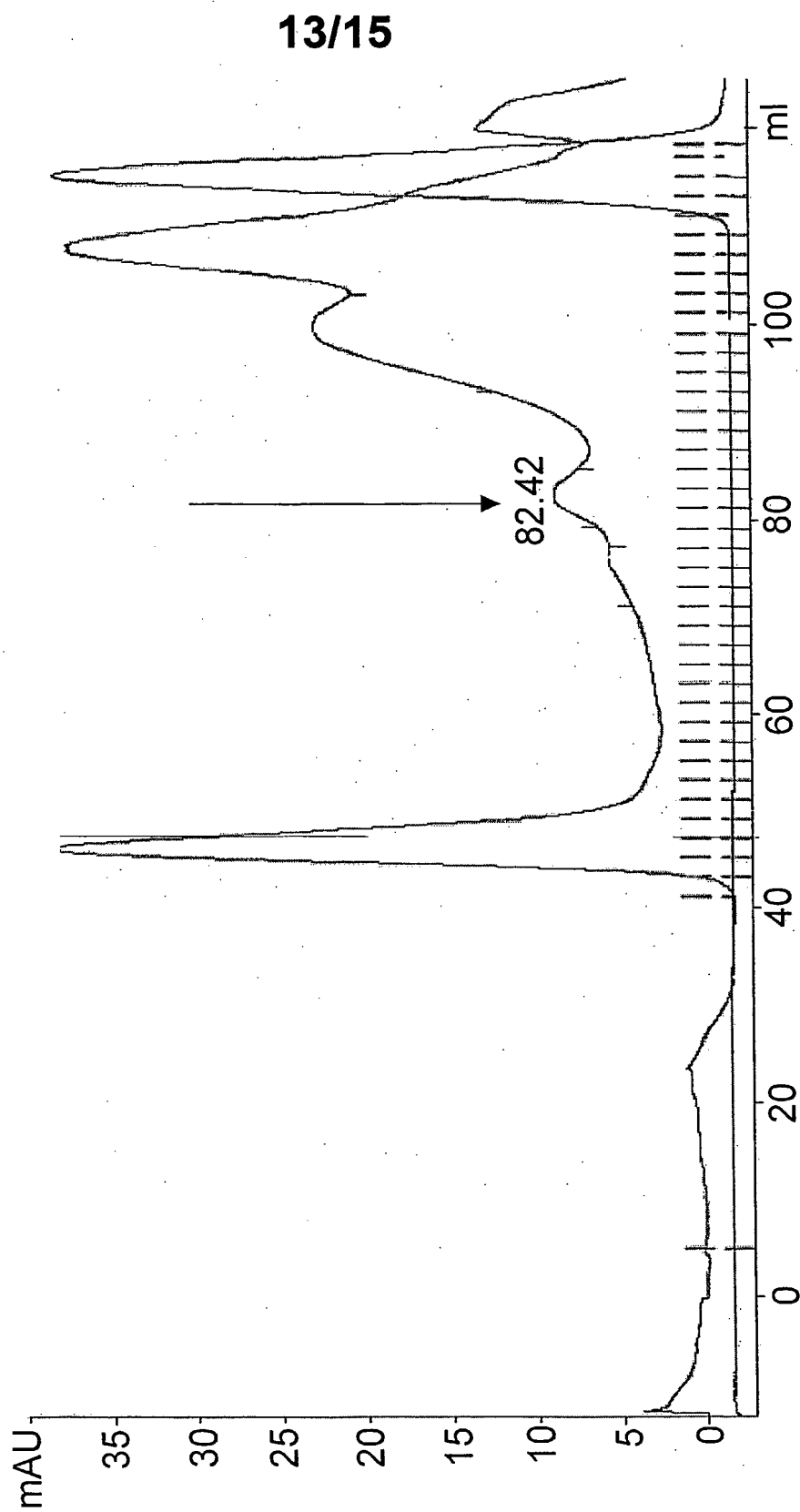


11/15

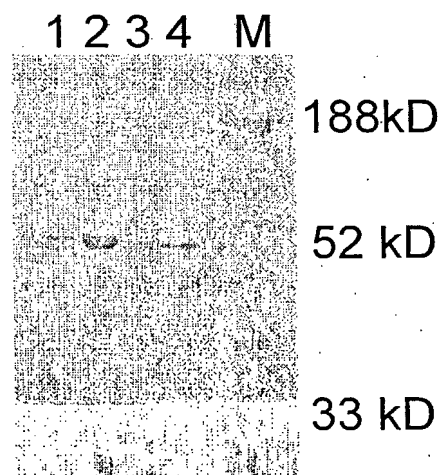
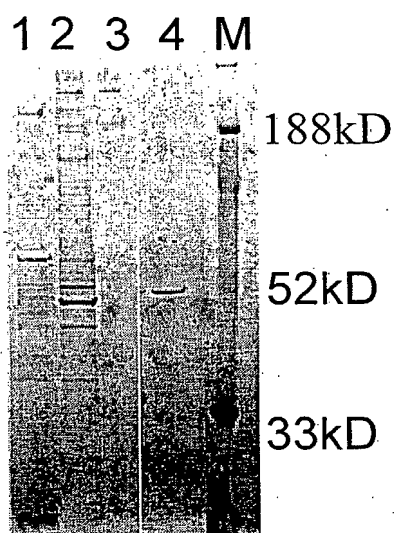


12/15

**Figure 3**

**Figure 4**

14/15

**Figure 5**

15/15

Figure 6

